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1 [Integrating the virtual and the physical: PaperPoint: a paper-based presentation and interactive paper prototyping tool](#)



Beat Signer, Moira C. Norrie

February 2007

**Proceedings of the 1st international conference on Tangible and embedded interaction TEI '07**

Publisher: ACM Press

 Full text available: [pdf\(843.61 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recent developments in digital pen and paper solutions enable, not only the digital capture of handwriting, but also paper to be used as an interactive medium that links to digital information and services. We present a tool that builds on technologies for interactive paper to enable PowerPoint presentations to be controlled from printed slide handouts. Furthermore, slides can be easily annotated during presentations by simply drawing on the printed version of the slide. As well as discussing th ...

**Keywords:** paper user interface, pen-based input, presentation tool, rapid prototyping

2 [SIGHT, a satellite interactive graphic terminal](#)



W S Barlett, K J Busch, M L Flynn, R L Salmon

January 1968

**Proceedings of the 1968 23rd ACM national conference**

Publisher: ACM Press

 Full text available: [pdf\(1.20 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A software system for a Satellite Interactive GraphiC Terminal called SIGHT has been developed by the Computing Sciences Department of Bell Telephone Laboratories for interaction with the General Electric 635 computer. The SIGHT hardware consists of a standard off-the-shelf PDP-7 computer, DEC 340 display, and peripheral equipment manufactured by the Digital Equipment Corporation (DEC). The general-purpose software system for SIGHT, designed and programmed at Bell Laboratories, builds upon ...

3 [Access control policy implementation: Towards a credential-based implementation of compound access control policies](#)



Joachim Biskup, Sandra Wortmann

June 2004

**Proceedings of the ninth ACM symposium on Access control models and technologies SACMAT '04**

Publisher: ACM Press

 Full text available: [pdf\(267.35 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe a layered approach to access control for distributed and interoperable computing systems. Firstly, compound access control policies are conceptually specified, using the policy algebra proposed by Bonatti, Capitani di Vimercati and Samarati. Secondly, SPKI/SDSI is exploited to implement and to enforce a policy specification by means of credentials. Therefore, SPKI/SDSI is slightly extended, in particular in order to allow algebra expressions over local names as subjects in authorisat ...

**Keywords:** access control, certificate chain discovery, credential, policy algebra, public


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### 1 [Information handling: ButterflyNet: a mobile capture and access system for field](#)


[biology research](#)

Ron Yeh, Chunyuan Liao, Scott Klemmer, François Guimbretière, Brian Lee, Boyko Kakaradov, Jeannie Stamberger, Andreas Paepcke

April 2006

**Proceedings of the SIGCHI conference on Human Factors in computing systems CHI '06**

Publisher: ACM Press

 Full text available: [pdf\(4.98 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Through a study of field biology practices, we observed that biology fieldwork generates a wealth of heterogeneous information, requiring substantial labor to coordinate and distill. To manage this data, biologists leverage a diverse set of tools, organizing their effort in paper notebooks. These observations motivated ButterflyNet, a mobile capture and access system that integrates paper notes with digital photographs captured during field research. Through ButterflyNet, the activity of leafing ...

**Keywords:** augmented paper notebook, mobile capture and access

### 2 [Pen computing: a technology overview and a vision](#)



André Meyer

July 1995

**ACM SIGCHI Bulletin**, Volume 27 Issue 3

Publisher: ACM Press

 Full text available: [pdf\(5.14 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

### 3 [A confederation of tools for capturing and accessing collaborative activity](#)



Scott Minneman, Steve Harrison, Bill Janssen, Gordon Kurtenbach, Thomas Moran, Ian Smith, Bill van Melle

January 1995

**Proceedings of the third ACM international conference on Multimedia MULTIMEDIA '95**

Publisher: ACM Press

 Full text available: [html\(73.96 KB\)](#)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** CSCW, activity capture, content-and content-based indexing and retrieval, digital audio and video, distributed multimedia systems, real-time indexing, usability, user interfaces


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### 1 [Signing tax returns with a digital pen](#)



Benjamin Wright

 October 1996 **ACM SIGSAC Review**, Volume 14 Issue 4

Publisher: ACM Press

 Full text available: [pdf\(124.98 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [index terms](#)

Until now, when a taxpayer files a tax return with the Internal Revenue Service electronically, it has been required that she sign a separate paper form, form 8453, as an authentication of the return. The paper 8453 form, which summarizes key parts of the tax return, then must be mailed to the IRS. The reason for the paper is that there was no electronic authentication device as effective and convenient for taxpayers as the ink signature.

### 2 [Standardizing information technology security](#)



Warwick Ford

 June 1994 **StandardView**, Volume 2 Issue 2

Publisher: ACM Press

 Full text available: [pdf\(1.12 MB\)](#)

 Additional Information: [full citation](#), [references](#), [index terms](#)

### 3 [Modern trends in authentication](#)



David L. Lipton, Harry K. T. Wong

 September 1985 **ACM SIGSAC Review**, Volume 3 Issue 2-4

Publisher: ACM Press

 Full text available: [pdf\(517.65 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#)

Authentication is the process of verifying a person's claim of identity. The designers of secure computer systems have incorporated many techniques of user-validation from law enforcement, from industrial security, and from the financial community. Several methods have also been developed explicitly for use in computer systems. This paper will present an overview of all methods of authentication currently used in computer security. Implementation considerations will also be discussed.

### 4 [Digital signatures: can they be accepted as legal signatures in EDI?](#)



Patrick W. Brown

 December 1993 **Proceedings of the 1st ACM conference on Computer and communications security CCS '93**

Publisher: ACM Press

 Full text available: [pdf\(609.34 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Digital Signature (DS) technology may be employed to produce legally enforceable signatures in Electronic Data Interchange (EDI) among computer users within the same general guidelines and requirements as those developed for handwritten signatures on paper. Digital signature technology promises assurance at least equal to written signatures. From a legal standpoint, this assurance remains to be tested in the evidentiary process. Business policies for organizational use of this technology are ...

**Keywords:** EDI, cryptography, digital signatures, distributed systems, law

5 Oral II: New pen device for biometrical 3D pressure analysis of handwritten characters, words and signatures



Christian Hook, Juergen Kempf, Georg Scharfenberg

November 2003 **Proceedings of the 2003 ACM SIGMM workshop on Biometrics methods and applications WBMA '03**

Publisher: ACM Press

Full text available: pdf(593.61 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The demand for biometric applications in security, human computer interaction and related areas is rapidly increasing. This paper presents an unique biometrical smart pen BiSP for personal identification and handwriting recognition that has been developed in our laboratory. The system is superior to many other biometric techniques which have considerable disadvantages in practice. Several ballpoint like prototypes based on integrated sensors have been designed and constructed. In this report we ...

**Keywords:** acoustic handwriting recognition, biometric identification, microphone pen, multimodal biometrics, pen-pressure analysis, signature verification

6 Enhancing workflows by web technology



Wolfgang Gräther, Wolfgang Prinz, Sabine Kolvenbach

November 1997 **Proceedings of the international ACM SIGGROUP conference on Supporting group work: the integration challenge GROUP '97**

Publisher: ACM Press

Full text available: pdf(1.34 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** HTML, Internet, electronic circulation folder, workflow

7 Late breaking results: short papers: Making an impression: force-controlled pen input for handheld devices



Sachi Mizobuchi, Shinya Terasaki, Turo Keski-Jaskari, Jari Nousiainen, Matti Ryyanen, Miika Silverberg

April 2005 **CHI '05 extended abstracts on Human factors in computing systems CHI '05**

Publisher: ACM Press

Full text available: pdf(283.80 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The properties of force-based input on a handheld device were examined. Twenty-one participants used force input to set 10 different target levels representing consecutive force ranges (0 to 4N) with visual feedback (digits or bar graphs) or no feedback. Both accuracy and speed were greater with analog feedback (bar graph). Statistical comparisons of adjacent targets/digits indicated that subjects differentiated roughly seven input levels within the set of ten force ranges actually used. Time ta ...

**Keywords:** force sensitive touch screen, handheld device, pen user interface

8 Viewpoint: signing your 011001010



Boaz Gelbord

December 2000 **Communications of the ACM**, Volume 43 Issue 12

Publisher: ACM Press

Full text available: pdf(85.66 KB) html(9.83 KB)

Additional Information: [full citation](#), [index terms](#)

9 Research papers: distributed applications: The feasibility of using the world wide web to authenticate higher education qualifications issued by universities and technikons

Susanne Taylor, Johan Vorster, Ruurd Van Der Wal

September 2002 **Proceedings of the 2002 annual research conference of the South**